

1 there have been a number of outcome studies now that
2 show that for some reason that we do not understand
3 that it was helpful.

4 Another reason for the folding that I
5 think everybody needs to understand is that if you put
6 this sort of flat device which is oval in cross-
7 section in a pocket that then begins to contract and
8 so that the device is now compressed into more of a
9 sphere, it's going to fold, and I don't know any way
10 that the manufacturer or anybody else can really
11 prevent that.

12 In regard to reverse diffusion, that was
13 brought up today. There was no evidence that I could
14 detect that I was aware of that it was a significant
15 problem and no evidence presented that it was a
16 problem.

17 If there is diffusion of that sort, it
18 would be through the valve, but there's no reason to
19 believe that's significant.

20 Local complications. Contracture is the
21 big problem, and everybody should understand what
22 happens with contracture. There's a membrane that

1 forms around the implant and for some reason that we
2 do not completely understand, the membrane contracts.

3 It often happens unilaterally. It is not
4 a systemic response, and the most prevalent theory at
5 the present time is that it is a low grade bacterial
6 infection from the breast ducts, which may explain why
7 we get better results in the retromuscular position,
8 and it also explains the use of Betadine, which I
9 think is one of the things that has surprised a lot of
10 people here, because that wasn't brought up. And
11 Betadine is used in an attempt to sterilize the
12 pocket.

13 There are questions that have been brought
14 up about the shelf life of saline. Saline per se, so
15 far as I understand it, has an indefinite shelf life.
16 All it is is salt water, and I think that the
17 expiration date that has been presented here, it
18 really refers to the container more than to the saline
19 itself.

20 Fungal growth in saline, I think most of
21 us have seen that. The situation has changed a lot
22 since those cases were initially presented. We used

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1 to use an open tray to fill the implants. In other
2 words, we would pour saline to an open tray on the
3 Mayo stand, take the saline out with a syringe, and
4 use it to fill the implant. That was pretty much the
5 standard of care.

6 I think what has happened is that there's
7 airborne fungi, and they would get into the open tray
8 and then be put into the implant. There's no reason
9 to believe that that contamination comes from the
10 patient herself, and the method of filling now that so
11 far as I know everyone uses is a closed method of
12 filling from an IV bag with a three-way valve, a
13 three-way stop cock to the syringe. So I don't think
14 that that's the issue that it once was.

15 Rippling is going to occur, specially in
16 the thin breast. It's going to be seen. There's no
17 way to get around that at the present time because the
18 implants are going to ripple.

19 The information we have in our literature
20 suggests that sensory changes in the nipple and the
21 areolar area are related not so much to the location
22 of the incision as to the position that the implant is

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1 placed, whether it's behind the muscle or in front of
2 the muscle, and I realize that that doesn't correspond
3 with what was just presented here, but I think we need
4 to be aware of that.

5 Mammography may be made more difficult
6 without any question whether the implant is behind the
7 muscle or whether it's behind the breast, but all of
8 the studies we have fail to show any difference in the
9 tumor stage when detected or in the long term
10 survival. So so far as an outcome is concerned, it
11 doesn't seem to be a major issue.

12 That's mine.

13 CHAIRMAN WHALEN: Thank you, Dr.
14 Burkhardt.

15 Actually unless there's specific questions
16 that we'll raise from time to time, you needn't
17 necessarily reside at that table. We'll just ask you
18 to come up to the podium if we do have a question to
19 ask you.

20 Thank you.

21 For statistics, Dr. Blumenstein.

22 DR. BLUMENSTEIN: Well, when I thought

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1 about this, I found myself thinking of how I would
2 respond if the information given to me were given to
3 me as an article to be reviewed for publication in a
4 peer review journal, and so a lot of what I'm going to
5 say here has to do with holding the information to
6 that standard, but there's also the standard of trying
7 to be informative to the potential recipient of an
8 implant.

9 The theme of what I'm going to say has to
10 do with the presentation of the data; do not take into
11 account the censoring and, therefore, the conditional
12 probabilistic aspect of what's going on in the
13 presentation of the data. I'll make that a little bit
14 clearer as we go along.

15 The Cox regression analysis, Cox
16 proportional hazard regression analysis looks like
17 it's somewhat useful. However, I would point out that
18 that would be very difficult for the consumer or
19 physicians to understand.

20 Also, for someone who wants to talk to me
21 later, I would have some ideas about how time
22 dependent covariance might be brought into that

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1 analysis in order to improve some of the precision of
2 the analysis.

3 However, I want to go on and talk about
4 the data itself, that doing Cox proportional hazard
5 regression on data that's kind of smelly might not be
6 the best thing in the world.

7 I want to talk about several methodologic
8 issues that are more technical in nature, and the
9 first thing I want to say is, of course, and as has
10 been pointed out before, these studies are not
11 randomized clinical trials. They don't come even
12 close to that, not to propose that anybody could do a
13 randomized clinical trial, but just in terms of
14 weighting the evidence we don't have that kind of
15 evidence here. We don't even have control groups, and
16 so these data should be very carefully interpreted.

17 Some of the plots that were presented and
18 some of the language that was used tried to represent
19 the individual risks as cumulative incidents. That's
20 absolutely wrong. They are not cumulative instances.
21 One minus a Kaplan-Meier curve is not a cumulative
22 incidence curve. That is a cumulative conditional

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1 probability curve. I have some references if someone
2 wants to look at them. We must have these things
3 labeled correctly to the patient.

4 I would suggest that you do look at real
5 cumulative incidence methodology as a means of
6 presenting the risk data and those same references
7 would address that.

8 The issue of interval censoring has been
9 brought up before. I'm not sure what to do about
10 that. That's a difficult problem here. I suspect
11 it's a matter of simply pointing it out in the
12 publication as a source of bias, as has been
13 previously discussed.

14 One of the very difficult issues that's
15 here is that the confidence intervals that are
16 presented are confidence intervals that represent the
17 experience of a group of patients and do not represent
18 the uncertainty of the estimates that pertain to an
19 individual patient's risk. This is a problem that
20 exists everywhere wherever risks are trying to be
21 presented. It's a difficult problem, and I don't have
22 an answer for it other than in certain specific

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1 situations.

2 Now, there's a number of data issues, and
3 all of them are related to what I call informative
4 censoring, and I think it's absolutely wrong that the
5 data have been presented here without any analyses to
6 show the characteristic, to try to characterize the
7 patients who are not followed for specific time
8 points.

9 There is information that the types of
10 patients who are dropped out over time could be
11 biasing the data significantly. You could be
12 comparing demographics. You could be comparing
13 whatever reasons for dropout you might have. You
14 could be comparing baseline assessments in terms of
15 some of the measures of quality of life or some of the
16 mechanical measurements and so forth.

17 So essentially what I'm saying is you can
18 compare the baseline data between patients who are
19 included in an analysis for a subsequent point in time
20 to the patients who are not included. It's just a
21 very minimalist approach to trying to get a handle on
22 whether the data from patients who are not included in

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1 subsequent time points are different from the data
2 that are there.

3 This kind of informative censoring applies
4 to the efficacy data, the quality of life data, and
5 the risk data. It applies to everything in this kind
6 of study.

7 Dr. Bandeen-Roche pointed out that
8 especially in the quality of life data the patients
9 who were explanted are not represented in the
10 subsequent, the late time point analyses of these
11 data. This is an extreme limitation and misrepresents
12 the data unless you point it out and very carefully
13 document that that's exactly what you're doing.

14 It's wrong to represent that as being an
15 unconditional quality of life assessment.

16 The follow-up for the data here are just
17 too short, and I will, I'm sure, talk about that
18 later. In short, my take on all of this is that I
19 cannot accept the accuracy of any of the data here
20 because of the limitations that I'm pointing out. It
21 may be that we do have some rough idea, some very
22 crude idea of the relative size of these risks and

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1 ranking of the risks, but I cannot feel good about any
2 of the data presented with respect to accuracy and
3 giving that information to an individual patient and
4 having that patient understand what the real risks
5 are.

6 CHAIRMAN WHALEN: Thank you.

7 With apologies for twice having put you
8 off, Ms. Domecus, if you have a question.

9 MS. DOMECUS: I just want to go back to
10 Dr. Li's criticisms regarding the mechanical testing
11 study design. As I understand it, it seemed like he
12 thought there was a disconnect between the laboratory
13 testing study design and how that could mimic what was
14 seen clinically, and I was just wondering if you had
15 any suggestions on how those tests could be designed
16 at this point or maybe later, but I think that might
17 be helpful to the manufacturer since, as you suggest,
18 they've done an awful lot of testing, put a lot of
19 effort in, and if it doesn't kind of hit the mark for
20 you, if you had some suggestions, I thought that would
21 be helpful.

22 DR. LI: Well, I suppose I do, but it

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1 probably would take a long time. We'd have to sit
2 down for a long time and work that out, but I think
3 one suggestion that I could definitely make though is
4 to continue the type of retrieval analysis that
5 they've begun to do because I think that is going to
6 be the proof in the pudding.

7 In other words, in other devices that I
8 work on, the whole purpose of our laboratory is to try
9 to develop an in vitro test that where at the end of
10 it it looks like the failed device, and the closer you
11 can get to that, the better off you are in developing
12 an apparatus or a test that would say, "Look. If I
13 improve the properties this way, I can measure it and
14 it will be better or worse clinically than what I've
15 got."

16 So in the absence of knowing the exact
17 mechanism for the failure, I'm not exactly sure what
18 test to suggest.

19 CHAIRMAN WHALEN: Did you also have a
20 question from earlier of the sponsor that --

21 MS. DOMECUS: It got answered.

22 CHAIRMAN WHALEN: Thank you.

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1 Do any of the other panel members have any
2 questions first of the sponsor before we go on to
3 attempt to answer the FDA questions?

4 DR. BURKHARDT: I have one more question
5 for the sponsor. When these failures occur, Mr.
6 Purkait, don't they usually occur at the end of a
7 fold?

8 MR. PURKAIT: Sometimes they do.

9 DR. BURKHARDT: Sometimes?

10 MR. PURKAIT: Yes.

11 DR. BURKHARDT: But not consistently?

12 MR. PURKAIT: Not consistently.

13 DR. BURKHARDT: Thank you.

14 CHAIRMAN WHALEN: Dr. Chang.

15 DR. CHANG: Also, was there any
16 relationship between thickness of the implant and sell
17 failure? Was that ever measured or considered?

18 There's a variability in the thickness of
19 the models or range of thickness?

20 MR. PURKAIT: Yeah, we have range of
21 thickness for the smooth and the SILTEX, which is
22 textured. We have information that shows that

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1 regardless, within the same model type, whether it's
2 the smooth or SILTEX, within the same specification
3 any of those tests show the same results. So
4 thickness does not cause problem.

5 DR. BOYKIN: Could I ask one more question
6 while you're there?

7 A comment in the summary, and I don't
8 think we've really talked about this, is that within
9 one device there could be a variation of almost the
10 entire thickness at the thinnest point of the shell,
11 like from 17/1000 to 34 or 35/1000 of an inch; is that
12 correct?

13 MR. PURKAIT: That's correct.

14 DR. BOYKIN: Now, this reflects the
15 inherent difficulty in fabrication of the device, that
16 you can't control the tolerance of the limits any
17 closer than that?

18 MR. PURKAIT: To some extent that's
19 exactly true. The way the shell works is that these
20 are all done by the dipping process, and if you take
21 a particular viscous material and if you dip the
22 mandrel, and if you turn it over, normally those

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1 things tend to drip down there. So you get a variable
2 thickness from the top to the bottom. That's why you
3 see the 14,000 to 38,000 is the difference.

4 But I just wanted to point out that most
5 of our test data though we target for the area of the
6 thinnest possible shell.

7 CHAIRMAN WHALEN: Dr. Morykwas.

8 DR. MORYKVAS: I just had a thing where
9 you commented on the white line on the implant is
10 interesting, and if you could, with the repeated
11 folding have you analyzed any of those where the white
12 line is for the induction of crystallization or
13 crazing or anything in the polymer material itself
14 that might change some accountable properties?

15 MR. PURKAIT: We did previously some of
16 those. We have looked into some of the explants. One
17 thing I just want to bring to the attention that
18 explant is very difficult because by the time we get
19 the explant, this particular explant has been altered
20 a few times because they go through sterilization;
21 they go through the wash process; they go through
22 various different handling procedures.

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1 Therefore, by the time we really actually
2 do that, we probably have not seen everything that's
3 coming out of the body. Nevertheless, we do try to
4 characterize as best as we can.

5 To answer your questions, we did not see
6 per se any creasing effect or super crystallization on
7 those areas because of the stress there.

8 CHAIRMAN WHALEN: Thank you.

9 Are there any questions of any of the
10 panel members for any of the three FDA presenters?

11 (No response.)

12 CHAIRMAN WHALEN: Seeing none, we will
13 being to attempt to answer FDA's questions.

14 Dr. Berkowitz, would it be possible to re-
15 project those questions sequentially as we try to deal
16 with them?

17 And for --

18 PARTICIPANT: (Inaudible.)

19 CHAIRMAN WHALEN: You will have a comment
20 period, sir, shortly.

21 On many of these questions I will poll the
22 entire panel. On come I will be somewhat more

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1 focused, and the first question which we see projected
2 is one of these more focused ones that Dr. Li is our
3 subject matter expert on, and we'll begin with him.

4 DR. LI: Well, in general, I think the
5 fatigue testing and fold flaw testing are incomplete
6 in that they either did not test all the models and/or
7 did not test the final materials that ended up in the
8 commercial device, the last issue being the reference
9 to switch to the Sytech silicone from the original
10 PTC, which is the bulk of their data. So it is at
11 best incomplete.

12 The fatigue testing and the fold flaw
13 testing I do not believe provide any long term
14 information to us to the rupture and leakage of the
15 implants. I think looking at their data, I would have
16 no way to predict when they switch, for instance, from
17 the PTC to the Sytech whether or not the rupture
18 leakage rate will be the same, better or worse. So I
19 guess my comment on the sponsor's methodology and
20 results is that the methodology, although it
21 represents some construct testing -- oh, actually one
22 important thing. Correct me if I'm wrong, but most of

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1 your fatigue and rupture data did not have the valve
2 in the implant; is that correct?

3 PARTICIPANT: We did have the valve.

4 DR. LI: They did have the valve. Okay.
5 Fine.

6 So in general I think the methodology,
7 although presents some device testing, I don't think
8 any of it is reflective of what we could expect to
9 happen in the patient. So I think what they've got
10 unfortunately is a little incomplete, and I don't know
11 what to do with the information as far as projecting
12 what the long term rupture and leakage of the implants
13 will be.

14 CHAIRMAN WHALEN: So in regard to our
15 first question on this testing, are there other
16 members of the panel that would like to address that?

17 Just to remind everyone on the panel and
18 in the audience, the way this will proceed is that
19 when the panel has attempted to answer the question,
20 I will then attempt to summarize, although there was
21 only one responder in this case, to Dr. Witten on
22 behalf of the FDA what the panel's answer is, and then

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1 if Dr. Witten finds that a satisfactory answer, we'll
2 proceed to the next question.

3 Dr. Witten, in regard to question number
4 one, it is the panel's opinion that at best we are
5 given incomplete testing, and that specifically in
6 regard to fatigue and fold flaw testing, that while
7 the methodology and the results were exposed to us,
8 that there seems to be little or no correlation with
9 the long term clinical actualities that are witnessed.

10 Is that sufficient for your answer?

11 DR. WITTEN: Yes. Thank you.

12 CHAIRMAN WHALEN: Thank you.

13 If we can go to question number two on the
14 projection screen, this is one of the questions that
15 I will ask that everyone comment upon the question,
16 and this has to do with the issue for patients who are
17 receiving the implants for augmentation.

18 Given what has been presented to us by the
19 sponsor, do we find in accord with the federal
20 regulations that the product is both safe and
21 effective for augmentation patients?

22 I will begin going around with Dr. Chang.

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1 DR. CHANG: Certainly the analysis
2 presented by Dr. Anderson gives credence to the fact
3 that with respect to change in size and for some of
4 the parameters of quality of life that the device is
5 effective for augmentation patients.

6 I want to qualify my comments about safe,
7 safe with qualifications, in that several of the
8 complications listed, and in fact, the high number of
9 complications listed is not in the purview of the
10 manufacturer; that it is dependent on the practice of
11 the physician. So it's a very qualified safe product.

12 And the remaining question in my mind is
13 that 5.8 percent deflation/leakage rate.

14 So for effectiveness, yes, in
15 augmentation; for safe, a qualified yes, given
16 parameter that are actually in the control of
17 physician, not the manufacturer.

18 CHAIRMAN WHALEN: Thank you.

19 Dr. Morykwas.

20 DR. WITTEN: Excuse me. Can I clarify
21 before you go around the room? Yes?

22 The way that 21 CFR 860.7, we're asking

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1 you actually about reasonable assurance of safety and
2 effectiveness. So it's not an absolute safe and
3 effective. The definition is reasonable assurance of
4 safety and effectiveness.

5 CHAIRMAN WHALEN: Thank you.

6 DR. MORYKWAS: I would just like to also
7 agree that I think the product has been shown to be
8 effective, and I will just somewhat parrot some of the
9 conclusions of Dr. Chang, that several of, I think,
10 the safety issues aren't really the responsibility of
11 the device itself. It is more the physician or the
12 physicians who are implanting it. So there are
13 concerns there.

14 And some of that, I guess, is out of our
15 purview. I don't think we can legislate how the
16 surgeon will do that.

17 But still with -- well, again, I'll get
18 back to Dr. Li also -- his comments that it is
19 relatively safe, yes, but still there is a high degree
20 of deflation that doesn't seem to gibe with in vitro
21 data.

22 CHAIRMAN WHALEN: Thank you.

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1 Ms. Dubler.

2 MS. DUBLER: I do think the effectiveness,
3 which is largely measured by the response and
4 satisfaction rates of the patients themselves, is
5 impressive and provides reasonable assurance that it
6 is effective.

7 I'm troubled by the combination of factors
8 that are either under the control of the manufacturer
9 or part of the practice patterns of surgeons or, in
10 the third place, part of the body's reaction to these
11 devices, and it's hard for me to sort them out.

12 I'm not sure I agree that we can't
13 legislative how surgeons go. I don't think we can
14 legislate it, but I think the notion of best practice
15 is a very powerful one, and I think that if there are
16 better ways to use these devices, that has to be very,
17 very clear in how they're marketed and who uses them
18 and under what conditions.

19 But I am concerned about the 5.8 deflation
20 rate and by the reported 43 percent complication rate
21 and 73 percent complication rate in reconstructive
22 patients. I think that's very, very high, and the

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1 combination of all of that makes we reluctant to say
2 that we can provide reasonable assurance that, in
3 fact, they're safe.

4 CHAIRMAN WHALEN: Dr. Robinson?

5 DR. ROBINSON: I believe that the product
6 is effective, with the word "reasonably," "reasonably
7 safe," I'm worried that no matter what type of ex vivo
8 testing we suggest, there won't be a link between that
9 testing and prediction of what happens clinically. So
10 we may be getting into a situation where we're looking
11 at more and more ex vivo testing and still coming back
12 and asking the question what does it mean clinically.

13 But the use of the word "reasonably" is
14 fine with me. It's reasonably safe.

15 CHAIRMAN WHALEN: Thank you.

16 Ms. Brinkman.

17 MS. BRINKMAN: Well, in regard to
18 effectiveness, obvious it's perceptual. It's true
19 then that deflation can't be considered effectiveness
20 because I would think if I had an implant and it
21 deflated I would not think it was very effective.

22 But anyhow, as far as safety goes, I think

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1 it's appalling that for an elective procedure for
2 augmentation that there is 43 percent, first
3 complication rate of 43 percent, and it continues. I
4 mean, it never levels off. It continues to grow.

5 And so I guess I feel negatively about the
6 safety of the product, even though I know that there
7 are many women who want them, and I think the
8 manufacturer does what they can.

9 CHAIRMAN WHALEN: Ms. Domecus.

10 MS. DOMECUS: I think effectiveness has
11 clearly been shown. I guess when I look at the
12 individual adverse event rates they all look
13 reasonable, but the 43 percent number does seem high,
14 especially for a cosmetic indication, and in my
15 experience I don't know that I've ever seen a
16 medically indicated product have that high of a
17 complication rate and have it be a favorable risk-
18 benefit ratio. So that would be concerning to me.

19 CHAIRMAN WHALEN: Dr. Li.

20 DR. LI: I agree with everyone on the
21 effectiveness of the implant.

22 I think the reasonably safe part, I think,

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1 would come down to whether or not you believe 5.8
2 material or design failure of the device is a
3 reasonable level. I think for my own purposes, for
4 the short length of time these devices were followed,
5 that's an alarmingly high what I'll characterize as
6 the design and material failure, and although the
7 surgeon may have a large input on this, and I never
8 intend to legislative surgical behavior and skill, I
9 think part of what we are able to do is either to
10 design or test for the variations that one would
11 expect a physician to apply in the implantation of
12 this device, and I don't believe that particular range
13 of possible surgical procedures has been explored.

14 So I would say although I would say it's
15 effective, I would have to come that it was
16 unreasonable for safeness.

17 CHAIRMAN WHALEN: Thank you.

18 Dr. Blumenstein.

19 DR. BLUMENSTEIN: I agree that it appears
20 that there's some efficacy here in terms of the
21 intended purpose of augmentation. I think the safety
22 issue is largely dependent on how well the risks could

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1 be communicated to the potential recipient of one of
2 these implants.

3 And I think accuracy has part of that, and
4 so forth. I think the best overall representation to
5 the potential recipient is the time to first bad
6 thing, which has been already characterized here as
7 being the best measure.

8 CHAIRMAN WHALEN: Dr. Boykin.

9 DR. BOYKIN: I would agree that we have
10 evidence that the device is effective, and I would
11 like to underscore the comments concerning the
12 environment that this whole process is taking place
13 in.

14 This operation is an invasive surgical
15 procedure, and it is associated with an inherently
16 dynamic process that occurs around this static,
17 inanimate object, and this is also affected by the
18 patient's own chemistry in terms of how they heal, the
19 drugs they're taking, whether or not they smoke
20 cigarettes, where they live, and how they live their
21 lives.

22 These are generally considered the

1 surgeon's complications, if you will, and not
2 necessarily the device's.

3 We've seen a disparity between the
4 mechanical testing and the clinical evidence of
5 failure which to me just basically means we need to go
6 back and redesign some tests.

7 Overall, however, I believe what we can
8 say about the safety is that we understand probably
9 better than ever before what these factors are, what
10 the patient will be faced with, but that to a fairly
11 great degree, I believe that a lot of these
12 complications are away from the domain of the device
13 itself, and I think that it is reasonably safe.

14 CHAIRMAN WHALEN: Thank you.

15 Dr. Bandeen-Roche.

16 DR. BANDEEN-ROCHE: Let me just first say
17 this is an appropriate time for me to read into the
18 record that I'm not a regular member of this panel,
19 that I was asked to serve on this panel because I'm
20 very highly qualified to evaluate the strength of
21 epidemiologic evidence and had a substantial
22 experience with self-reported health function and

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1 quality of life data, but not because I have
2 particular specialty in plastic surgery or implants.

3 That having been said, in terms of safety,
4 my reading of the epidemiologic evidence in its total
5 is that the devices are reasonably safe, if safety is
6 defined as a very hazardous event, such as death,
7 systemic diseases, that sort of thing.

8 In terms of effectiveness, I believe that
9 the device has been shown to satisfy rather narrow
10 definition of effectiveness, that is, increasing of
11 bust size, some evidence of increase in body image.
12 I did not find any strong evidence for increases in
13 self-esteem.

14 Quality of life was not really assessed,
15 and I agree with Ms. Brinkman in that in my mind
16 efficacy also has to do with complications, you know,
17 reoperations, cosmetic complications that occur at a
18 high enough rate that I don't feel that I can give a
19 blanket reasonable assurance in terms of high
20 probability of a desired outcome and, therefore,
21 effectiveness.

22 CHAIRMAN WHALEN: Dr. Burkhardt.

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1 DR. BURKHARDT: I believe the safety in
2 surgery is always qualified. It always comes with
3 qualifications, and this particular operation is no
4 exception.

5 My comments about physician behavior and
6 the probability of being able to change that through
7 the mechanism of this particular agency are perhaps
8 colored by my knowledge of how training works and the
9 fact, and probably most people are unaware of this.

10 Once you are licensed in a state as a
11 physician, you are legally entitled to do any
12 operation that you can do, provided you do it in your
13 own environment, in your office or whatever. There
14 are no restrictions legally regarding what any
15 physician may do with any particular patient, and
16 we're in a situation now where we're seeing more and
17 more of this with people who are not plastic surgeons
18 or who define themselves as plastic surgeons but don't
19 meet the usual qualifications are doing this kind of
20 surgery.

21 And all I'm saying is that that's going to
22 be very difficult to control through this agency or by

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1 any action of this committee.

2 I believe that the --

3 CHAIRMAN WHALEN: Excuse me, Dr.
4 Burkhardt. Dr. Witten was just addressing this.

5 DR. WITTEN: Yeah, I think we want to
6 focus on for this product.

7 DR. BURKHARDT: I understand that. I
8 understand that, but that was brought up, and I felt
9 that I should respond to it.

10 I think that so far as I can see these
11 have been proven to be effective, and I think they're
12 reasonably safe.

13 CHAIRMAN WHALEN: Thank you.

14 Dr. Witten, in regards to patients
15 receiving this device for augmentation purposes, in
16 attempting to answer whether or not we the panel deem
17 it to be reasonably safe and effective, I believe
18 there is near unanimous opinion that it is effective
19 within the important constraints of defining
20 effectiveness as we have viewed it today, but there is
21 less than consensus on the issue of safety inasmuch as
22 nearly everyone on the panel is significantly troubled

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1 by the complication rates that have been reported by
2 the sponsor, but there are various interpretations
3 upon the significance of those complication rates
4 inasmuch as they relate to the definition of safety.

5 Does that answer your question?

6 DR. WITTEN: Yes. Thank you.

7 CHAIRMAN WHALEN: We go on to the third
8 question which has to do with the same issues of
9 reasonable safety and effectiveness, but this time as
10 regards those patients who receive this implant for
11 reconstructive purposes, and we'll skip over and begin
12 with Dr. Morykwas.

13 DR. MORYKWAS: Well, again, I think that
14 we can or at least in my opinion the device has proved
15 to be effective, and then coming to the issue of
16 safety, the complication rate does increase
17 significantly for this patient population, but some of
18 that is to be expected just due to the nature of the
19 patient and their systemic conditions which has caused
20 them to need to be reconstructed.

21 But I would believe that this device would
22 be reasonably safe even with the higher complication

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1 rate.

2 CHAIRMAN WHALEN: Thank you.

3 And I would just interject before Ms.
4 Dubler gives us her answer everything that was said
5 the last time was insightful and important, and I'm
6 not reflecting upon anything anybody said, but if you
7 just simply agree with what you said the last time,
8 it's perfectly acceptable to say, "I feel the same as
9 I did last time."

10 Sorry.

11 MS. DUBLER: Actually I think there's
12 another factor when reconstruction is at play, and for
13 me, as I think the choice for a woman is different
14 under those circumstances, I would wonder what her
15 options would be. In other words, if all of the
16 options for the prosthetic devices have the same
17 complication rate, I might still say that for a woman
18 facing reconstruction that that might be safe enough
19 under those circumstances.

20 Aside from that, I ditto what I said
21 before.

22 CHAIRMAN WHALEN: Thank you.

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1 Dr. Robinson.

2 DR. ROBINSON: Ditto what I said before.

3 CHAIRMAN WHALEN: I may have started a
4 trend.

5 Ms. Brinkman.

6 MS. BRINKMAN: Unfortunately I cannot do
7 a ditto.

8 I think this becomes even a much more
9 devastating issue for me. Unfortunately we just
10 haven't studied a large enough number of patients for
11 me to agree that it's safe and effective.

12 CHAIRMAN WHALEN: Thank you.

13 Ms. Domecus.

14 MS. DOMECUS: Again, going back to the
15 risk-benefit ratio, I would feel comfortable saying
16 that for this indication that safety and effectiveness
17 have reasonably been shown. Even though the risks are
18 higher, I think there's a unique benefit here, and the
19 risk-benefit ratio, I think, is favorable for this
20 patient population.

21 CHAIRMAN WHALEN: Thank you.

22 Dr. Li.

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1 DR. LI: Same answer as before.

2 CHAIRMAN WHALEN: Thank you.

3 Dr. Blumenstein.

4 DR. BLUMENSTEIN: I would like to put just
5 one qualification on the answer here. It really
6 applies to what I said before as well as this, and
7 that is that I want to make sure that the
8 characterization of effectiveness provides adequate
9 data on quality of life benefits appropriately
10 analyzed, and so forth.

11 CHAIRMAN WHALEN: Thank you.

12 Dr. Boykin.

13 DR. BOYKIN: No change.

14 CHAIRMAN WHALEN: Thank you.

15 DR. BANDEEN-ROCHE: My comments on safety
16 and complications are unchanged.

17 With regard to the quality of life, I
18 think it's even a more narrow definition of
19 effectiveness in this case. No evidence that the
20 implant affected quality of life and not just recovery
21 from surgery, other than anecdotal evidence.

22 Thank you.

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1 CHAIRMAN WHALEN: Dr. Burkhardt.

2 DR. BURKHARDT: Effective and reasonably
3 safe.

4 CHAIRMAN WHALEN: Thank you.

5 Dr. Chang.

6 DR. CHANG: Effective and reasonably safe.

7 CHAIRMAN WHALEN: Thank you.

8 Dr. Witten, in regards to patients who
9 receive this device for reconstruction as regards
10 reasonably safe and effective, generally the same
11 opinion that was voiced to you in the prior question
12 is reflected with perhaps two important exceptions,
13 and that is that the effectiveness as regards the
14 frame of reference of indications is different in this
15 particular subset of patients by virtue of what
16 options the patients may have, and that the single
17 subject matter expert with the best expertise as
18 regards quality of life type of data feels that that
19 has not been sufficiently answered by the sponsor's
20 presentation.

21 **

21 Does that answer your question?

22 DR. WITTEN: Yes. Thank you.

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1 CHAIRMAN WHALEN: Thank you.

2 We proceed to question number four. With
3 the exception of the one year follow-up data in the
4 implants and the FBS study, FDA asserts that the
5 sponsor has not collected safety and effectiveness
6 information for the cohort of revision patients, and
7 yet the sponsor is proposing revision as an indication
8 for use.

9 Since this is about 30 percent of patients
10 who present for this operation, we are asked to
11 discuss whether sufficient safety and effectiveness
12 data, to include revision, as in a mentioned stated
13 indication and whether the sponsor should evaluate the
14 safety and effectiveness for revision patients as a
15 condition of approval. Please also comment on the
16 information that would be useful to collect in a post
17 approval study.

18 Ms. Dubler.

19 MS. DUBLER: I find this a very hard
20 question because it builds on the uncertainties of the
21 two that preceded it. Given my lack of comfort with
22 the first three questions, I would request that the

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1 sponsor investigate revision in a more detailed
2 fashion, although it's beyond my capacity to make
3 specific suggestions.

4 But I think before they could include
5 revision, they would need to collect more data and be
6 very certain what their measures were.

7 CHAIRMAN WHALEN: Thank you.

8 Dr. Robinson.

9 DR. ROBINSON: Since I believe it's a
10 reasonably effective device, I think revision should
11 continue as an indication and perhaps some discussion
12 could be on a post approval continuing to collect data
13 in this particular group of patients.

14 CHAIRMAN WHALEN: Thank you.

15 Ms. Brinkman.

16 MS. BRINKMAN: I believe there's a lack of
17 safety and follow-up data.

18 CHAIRMAN WHALEN: Ms. Domecus.

19 MS. DOMECUS: Again, is revision here
20 meaning revision for any reason, not just for cosmetic
21 reasons?

22 CHAIRMAN WHALEN: Well, inasmuch as we're

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1 really sort of focusing it upon a labeling application
2 here and since the word revision is there and not
3 necessarily with qualification.

4 MS. DOMECUS: I would think we wouldn't
5 want to preclude patients from undergoing a revision
6 procedure if they wanted to, especially if they're
7 doing it for a complication. So even if there isn't
8 as much data as we'd like to see in it, I think that
9 it should be part of the approval, where many issues
10 can be done post approval.

11 CHAIRMAN WHALEN: Maybe I would ask Dr.
12 Witten if a little clarification here would be in
13 order. If we don't mention revision in the
14 indications, that would not in and of itself preclude
15 a patient receiving this device for revision.
16 However, it would more focus what the standard set of
17 indications for using this device would be. Am I
18 correct in saying that?

19 DR. WITTEN: That's correct.

20 CHAIRMAN WHALEN: Dr. Li.

21 DR. LI: Yeah, with that clarification
22 I'll say there's not enough information to accept it

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1 for safety as revision. The thing that sets me off a
2 little bit on that is that it's a little bit
3 surprising and somewhat unexplained why in the
4 reconstruction case the deflation rate is so much
5 higher, and now we have a revision series in which we
6 have no information hardly at all.

7 It's unclear how you would predict what
8 that would be. So I think I would definitely ask for
9 a follow-up.

10 CHAIRMAN WHALEN: Thank you.

11 Dr. Blumenstein.

12 DR. BLUMENSTEIN: Well, I feel like that
13 the patients who are undergoing revision will be a lot
14 more informed than the patients who are undergoing
15 their first implantation. And so with that condition,
16 I feel that there's a little bit less of a concern
17 about informing patients, although other things can
18 happen besides what happened the first time.

19 So I feel that more data need to be
20 collected, but I would go along with the indication.

21 CHAIRMAN WHALEN: Thank you.

22 Dr. Boykin.

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1 DR. BOYKIN: I believe clinically speaking
2 this indication really falls in between the two areas
3 that we've looked at. It should, I believe, at least
4 from my experience, be considered a continuum of the
5 spectrum.

6 While there is relative paucity of data,
7 I believe that this could be continued as a post
8 approval study and that the complications that have
9 been investigated should continue to be documented.

10 CHAIRMAN WHALEN: Thank you.

11 Dr. Bandeen-Roche.

12 DR. BANDEEN-ROCHE: While I agree that the
13 data collection needs to continue hopefully along many
14 of the same parameters that have already been
15 collected, it is very conceivable to me that medical
16 and biological and mechanical analogy would be
17 sufficient to approve this for revision if we're
18 approving it for the other things, and I would defer
19 to the other subject area experts on that.

20 CHAIRMAN WHALEN: Dr. Burkhardt.

21 DR. BURKHARDT: That's such a fuzzy
22 question I still can't understand it. I cannot

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1 imagine a situation in which you would have a patient
2 who has had a safety and effective implantation
3 primarily, needs a revision, and then say, "Well, it
4 was okay for the first time, but not for the second
5 time."

6 And I can't imagine that an implant that
7 would be judged safe and effective for an initial
8 procedure would not be judged safe and effective for
9 a revision procedure, and I believe it should be
10 included as safe and effective.

11 CHAIRMAN WHALEN: Thank you.

12 Dr. Chang.

13 DR. CHANG: I'll be consistent and leave
14 it on as an indication and ask for post marketing
15 study, follow-up.

16 CHAIRMAN WHALEN: Thank you.

17 Dr. Morykwas.

18 DR. MORYKVAS: I'll also agree that it
19 should be approved with post market approval because
20 you also could run into the situation where a woman
21 with bilateral implants has a unilateral explantation
22 and then couldn't be revised, and that's a peculiar

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1 conundrum that would be in there.

2 So I would recommend a yes.

3 CHAIRMAN WHALEN: Thank you.

4 Dr. Witten, there is not a unanimity of
5 opinion on this particular subject. However, it is,
6 I think, the clear preponderance of the panel's
7 opinion that there should be a directive for further
8 data to be collected upon this issue of patients who
9 receive this device for revision.

10 On whether or not this should be a part of
11 the labeling, there is pretty much a division 50-50 of
12 opinion on this particular topic.

13 DR. WITTEN: Thank you.

14 CHAIRMAN WHALEN: Thank you.

15 Going to question number five, this is
16 sort of a side point of what we were talking about a
17 little bit earlier in terms of the complications, but
18 it focuses upon long term adverse events, and I would
19 ask that those in responding address the three
20 lettered subpoints of question number five, and we, I
21 believe, start with Dr. Robinson.

22 DR. ROBINSON: The increasing rates per

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1 year for a device, I mean, devices over time have
2 increasing rates of complications, I think, for most.
3 So I'm not too surprised there are increasing rates.

4 The minimal duration of follow-up to look
5 at them, I think I would have to defer to the
6 statisticians. I'm not sure I have even a gut feeling
7 for what that should be in terms of a number.

8 The type of visit, I'd have to ask for
9 some clarification. Active versus passive, what
10 exactly is meant by that?

11 Pardon?

12 DR. WITTEN: Do you want clarification
13 from us or --

14 DR. ROBINSON: Yeah, please.

15 DR. WITTEN: Yeah, meaning does the
16 patient come in for, you know, to be seen. Is it a
17 postcard follow-up? Is it a visit with the physician?

18 DR. ROBINSON: So active would be they're
19 physically present.

20 DR. WITTEN: Yeah. In other words, what
21 mechanism? You know, there's a range of ways of
22 getting information from follow-up.

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1 DR. ROBINSON: If you're going to continue
2 to do long term follow-up, you should do it in a
3 serious manner, and it should be active.

4 And which types of complication should be
5 addressed? They should be serious complications,
6 complications like connective tissue diseases, and
7 things like that that I think have been laid to rest
8 by multiple studies should not be included on these
9 serious complications.

10 CHAIRMAN WHALEN: Thank you.

11 Ms. Brinkman.

12 MS. BRINKMAN: Well, I believe that the
13 FDA in '95 asked for a minimum of ten years for
14 patient follow-up, at least for deflation, and so
15 certainly a minimum of ten years, although I am not a
16 statistician. So that's my only off the top of my
17 head, non-expert opinion.

18 Certainly an active visit would be
19 preferred, but I'm not sure I believe that's
20 realistic, and so in light of not being able to get
21 that, then some sort of at least survey or by mail
22 thing or the best that someone can get.

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1 Obviously what types of complications,
2 capsular contraction, infection, deflation, breast
3 nipple sensation, leakage, rupture, reoperation, the
4 whole list of complications that we've discussed to
5 this point.

6 CHAIRMAN WHALEN: Thank you.

7 Ms. Domecus.

8 MS. DOMECUS: Again, I'm not sure if this
9 question refers to preapproval or just any data that's
10 there.

11 CHAIRMAN WHALEN: Actually you can phrase
12 your answer in whichever way you desire.

13 MS. DOMECUS: From a preapproval
14 standpoint I think the sponsor has more than met the
15 typical standards for what would be required prior to
16 FDA approval. So that any of this data I think should
17 be a post approval setting.

18 The ten year stipulation that's already
19 present, I think, is very stringent already. So I
20 think that should not be extended.

21 Active or passive? I think either is
22 probably a fine way to collect the data. In terms of

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1 wish complications, I think all complications should
2 be followed for the duration of the study.

3 CHAIRMAN WHALEN: Thank you.

4 Dr. Li.

5 DR. LI: I guess I would leave, again, the
6 minimal follow-up to the statisticians, although the,
7 again, short term performance of these things as far
8 as deflation goes, to me I still consider to be quite
9 high, but I certainly would like to follow that up for
10 a little longer, at least the ten year suggested FDA.

11 I'd like the follow-up to be active. I
12 think if we could include perhaps so that it would be
13 a little easier to ascertain after the fact if there
14 is a deflation or some mechanical failure that there
15 would be some easy way to ascertain the model, the
16 sterilization method, or the details of that
17 particular device, and then we could answer the
18 question is there a material and design correlation or
19 is there not with this, and try to answer that
20 question once and for all.

21 And maybe this is outside the purview of
22 a survey, but I certainly would encourage either the

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1 companies or some academic institution to embark on
2 what other implant devices do and have retrieval
3 collections and analysis because I think in the
4 absence of that we're never going to get to the actual
5 factual answer that will make us all happy.

6 CHAIRMAN WHALEN: The drum roll for the
7 first of our statisticians, Dr. Blumenstein.

8 (Laughter.)

9 DR. BLUMENSTEIN: So I've been set up
10 here. I have to say the number of years, huh? No
11 way.

12 I think a long term follow-up, active
13 follow-up would be very useful here for the reasons
14 just cited, and in particular to address this issue of
15 informative censoring, you need to know why patients
16 are not coming back for their follow-up visits and
17 whether that has something related to do with failures
18 or particular types of failures.

19 So I think that an active long term
20 follow-up study until that Kaplan-Meier curve starts
21 to flatten out a little bit.

22 CHAIRMAN WHALEN: Thank you.

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1 Dr. Boykin.

2 DR. BOYKIN: I believe the ten year period
3 is a reasonable minimum requirement, and that if at
4 all possible, if at all reasonably possible, the
5 patient should be enrolled in an active follow-up
6 phase and that the complications that we have looked
7 at, capsular contracture, infections, asymmetry,
8 breast feeding complications, nipple sensation, recent
9 review of the mammography I think would also be
10 important and maybe review of the trauma and illnesses
11 that have occurred while the patients had the implants
12 as well.

13 CHAIRMAN WHALEN: Thank you.

14 Another statistical opinion, Dr. Bandeen-
15 Roche.

16 DR. BANDEEN-ROCHE: Well, I would like to
17 punt a little bit and say that in my opinion
18 statistics can't answer the question about duration
19 if this is more than establishing the precision. If
20 it were then we could determine number of events and
21 do a power calculation, but it's a matter of
22 establishing the natural history of the device. So

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1 that's medicine and lots of things other than the
2 statistics.

3 That having been said, I agree with Dr.
4 Blumenstein's recommendation.

5 CHAIRMAN WHALEN: Thank you.

6 Dr. Burkhardt.

7 DR. BURKHARDT: I think that the present
8 study has an adequate follow-up and adequate follow-up
9 for pre-market approval. I would agree that it might
10 be nice to get a ten year active follow-up, but
11 pragmatically it's not going to happen, and you will
12 be very lucky if you get a ten year passive follow-up
13 on a significant percentage of these patients.

14 This is a highly mobile population, and
15 unless you have data like they do in Canada where you
16 can trace these people by their Social Security
17 numbers or whatever, you're not going to get them back
18 for follow-up for ten years.

19 CHAIRMAN WHALEN: Dr. Chang.

20 DR. CHANG: I would agree with Dr.
21 Burkhardt's comments that it would be important to get
22 data regarding deflation rates, but it is not

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1 practical to expect an active follow-up, and we should
2 not not get the data and record it because of someone
3 having a passive -- passively giving us this
4 information.

5 CHAIRMAN WHALEN: Thank you.

6 Dr. Morykwas.

7 DR. MORYKWAS: I'll just also agree that
8 I think in the real world a ten year active follow-up
9 is not possible and even passive follow-up in the last
10 five years from years six to ten is doubtful, but I
11 would agree with the other -- with (c) for all
12 complications.

13 CHAIRMAN WHALEN: Thank you.

14 Ms. Dubler.

15 MS. DUBLER: Ideally an active follow-up
16 for ten years. If that isn't possible, a passive
17 follow-up for ten years, and in any event, I think we
18 should track as many complications as we can in that
19 period of time, and with a special focus on the
20 leakage and deflation.

21 CHAIRMAN WHALEN: Thank you.

22 Dr. Witten, the panel in attempting to

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1 answer these questions feels that with the consensus,
2 the ideal follow-up should be active and ten years-
3 plus, which is really in line with what FDA has
4 already required and/or suggested, but an asterisk
5 perhaps on that should be that some seasoned cynicism
6 or realism, depending upon how you want to put it,
7 thinks that that may or may not be achievable.

8 And that finally, in terms of
9 complications, clearly all of those complications that
10 we have rather extensively discussed already today
11 should be tracked inasmuch as they have not plateaued
12 over the period of observation, and any and all other
13 serious complications should be as well.

14 Does that answer the question?

15 DR. WITTEN: Thank you.

16 CHAIRMAN WHALEN: Thank you.

17 Going to question number six, in regard to
18 design of the study of the sponsor in providing
19 information on certain long term issues, we are asked
20 to comment, and I would specifically point out that
21 this is as a condition of approval, although if there
22 is some further editorialization that any of the panel

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1 wish to make about post approval, then please do so.

2 And those three issues, as you see posted
3 and before you, have to do with interference of the
4 ability of screening mammography to detect tumors when
5 implants are present, interference with lactation and
6 effects of offspring from women with implants.

7 And I believe, Ms. Brinkman, you're up.

8 MS. BRINKMAN: I think these issues are
9 going to take good education and information.
10 Certainly that physicians, radiology techs,
11 mammography techs, and patients need to know the
12 importance of good clinical breast exams, that when
13 compression techniques are available, MRIs aren't
14 practical; that according to Dr. Berg, that we're
15 going to see double in radiation costs and doubles in
16 radiation doses; that people need to know where the
17 placement of the implants are and how that affects the
18 mammogram; that implants can hide breast tissue; that
19 certainly the viewing may be limited by contractures
20 and difficult to visualize.

21 And I think all of those issues need to be
22 made available in provider patient information and

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1 education.

2 CHAIRMAN WHALEN: Just in follow-up
3 though, should there be anything specifically as a
4 condition of approval or prior to approval in any of
5 those things that you feel needs to be done?

6 MS. BRINKMAN: Other than those are
7 included in our information and education in the
8 labeling.

9 CHAIRMAN WHALEN: Okay. Thank you.

10 MS. BRINKMAN: Are we going to address
11 lactation or are we going to just do these one at a
12 time?

13 CHAIRMAN WHALEN: All three. Yes, please
14 address all three.

15 MS. BRINKMAN: Okay. The same for
16 lactation, that the ability to nurse a child may be
17 certainly affected by having an implant, and the
18 effects on offspring from women with implants, I don't
19 know that there's any data out there that says that it
20 affects babies born of mothers that had implants.

21 CHAIRMAN WHALEN: Thank you.

22 Ms. Domecus.

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1 MS. DOMECUS: I'm not sure that I'm
2 qualified to design the studies to address these, but
3 I did have a couple of comments.

4 I think question number one about this
5 interference with mammography, I think that it was Dr.
6 Berg presented data on that. So I think that that's
7 probably been sufficiently addressed, and that the
8 sponsor shouldn't have to do that post approval.

9 The IOM report addresses interference with
10 lactation and addresses that positively. So that
11 seems like an issue that doesn't need to be further
12 addressed.

13 The only comment that I'd make on that
14 though is that one of the presenters in the open
15 public section this morning talked about how it could
16 actually reduce the amount of milk even if it didn't
17 put contamination into the milk, and that's something
18 that maybe a nursing mother, if she didn't ever use a
19 breast pump, would not be aware of. The baby could
20 not be gaining weight, and you could have some, you
21 know, failure to thrive issues.

22 So maybe I think it's an informed consent

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1 issue that nursing mothers need to realize their milk
2 volume may be less if, in fact, the presenter earlier
3 this morning was factual in his statements.

4 And as far as effects on offspring from
5 women with implants, the IOM suggests that that is
6 something that should be further studied.

7 CHAIRMAN WHALEN: Thank you.

8 Dr. Li.

9 DR. LI: I'll defer to my more learned
10 colleagues on this.

11 CHAIRMAN WHALEN: Thank you.

12 Dr. Blumenstein.

13 DR. BLUMENSTEIN: I've been waiting for a
14 place to say this all day, and I've finally figured it
15 out. I think that these are very important issues and
16 are very difficult issues to address in any kind of
17 study or surveillance system.

18 Just as an idea, maybe insurance providers
19 or managed care might have data that would be
20 obtainable that would address these issues, and I
21 would encourage the FDA and the sponsor to investigate
22 those as possible sources of data addressing these

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1 issues.

2 CHAIRMAN WHALEN: Thank you.

3 Dr. Boykin.

4 DR. BOYKIN: I agree that it would be
5 important to continue to collect information. I think
6 the IOM studies, study, rather, has given us some
7 comfort at least in terms of the problems related to
8 mammography and the interference with lactation.

9 And I think that an informed consent
10 process could be developed by the manufacturer and
11 perhaps reviewed by the FDA as a way to take care of
12 this.

13 CHAIRMAN WHALEN: Thank you.

14 Dr. Bandeen-Roche.

15 DR. BANDEEN-ROCHE: I don't believe that
16 the current study is well designed to rigorously
17 investigate any of these issues. I certainly support
18 collecting data in long term follow-up. You know
19 about events that occur, but I would not say that
20 further rigorous investigation is a condition for
21 approval.

22 CHAIRMAN WHALEN: Dr. Burkhardt.

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1 DR. BURKHARDT: I believe that we have all
2 the information we need for pre-market approval.

3 CHAIRMAN WHALEN: Thank you.

4 Dr. Chang.

5 DR. CHANG: I don't believe any further
6 study is required regarding these questions before
7 approval.

8 CHAIRMAN WHALEN: Thank you.

9 Dr. Morykwas.

10 DR. MORYKWAS: I also don't believe any
11 other information is required.

12 CHAIRMAN WHALEN: Ms. Dubler.

13 MS. DUBLER: I don't think the information
14 is required before approval, were all other problems
15 solved, but I think these three areas should be
16 flagged to women as areas of some complexity and
17 uncertainty, and that long term follow-up studies
18 should be encouraged.

19 CHAIRMAN WHALEN: Thank you.

20 Dr. Robinson. **

21 DR. ROBINSON: As I understand the
22 question, the sponsor to evaluate these issues as a

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1 condition of approval, so the answer to two and three
2 would be, no, we have adequate data on that. That
3 should not be a condition of approval.

4 One, no, it should not be a condition of
5 approval, but somewhere the panel will have to address
6 the fact that some patients in rare instances will
7 need additional imaging studies, and we should address
8 that if for nothing more to give patients leverage on
9 their payers to support those studies.

10 CHAIRMAN WHALEN: Thank you.

11 Dr. Witten, in regards to the three
12 questions, the panel does not collectively feel that
13 any of these issues would need to be evaluated by the
14 sponsor prior to consideration of approval of their
15 application, but nevertheless, I believe there is a
16 preponderance of concern about several of the issues,
17 and specifically mostly centered upon that of the
18 possible interference with mammography, and that this
19 should be something that would need to be studied in
20 the future.

21 Does that answer the question?

22 DR. WITTEN: Yes, thank you.

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1 CHAIRMAN WHALEN: Thank you.

2 And finally, question number seven, and
3 this, I believe, is the other one that we can be a
4 little bit less formal about going around the table,
5 has to do with heterogeneity of surgical practice and
6 recommendations for what issues should be included in
7 physician training vis-a-vis this particular device
8 and its implantation.

9 Does anyone wish to comment upon that?

10 Ms. Dubler.

11 MS. DUBLER: I'm impressed by some of the
12 discussion of the importance of surgical technique in
13 these sorts of surgeries, and I'm also impressed by
14 the fact that this is a growing field, and cosmetic
15 surgery is now described as one of those fields
16 outside of the restrictions of managed care, and
17 therefore, lots of people are finding it attractive,
18 and that makes me very anxious about some of the
19 people who will be engaged in these surgeries.

20 And, therefore, I would expand this topic
21 not only to address surgical training, but to also
22 address potential patients and tell them to be aware

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1 of the fact that surgical training varies in these
2 areas, and it's one of the discussions they ought to
3 have with a prospective provider.

4 CHAIRMAN WHALEN: Ms. Domecus.

5 MS. DOMECUS: I guess as a follow-on to
6 that, I think that physician training should not just
7 involve the surgical techniques and information about
8 the device, but apparently information about the
9 informed consent process.

10 This morning session, that was the most
11 alarming part of all that to me, was how many of these
12 patients didn't feel like they got adequate
13 information or any information on the risks and
14 benefits to make an informed decision, and so I think
15 that the sponsor could go a long way in helping its
16 physician customers understand what an adequate
17 informed consent process looks like.

18 CHAIRMAN WHALEN: Dr. Witten, in an
19 attempt to answer this question and perhaps even
20 taking the purview of the chair and editorializing a
21 little bit myself as a Program Director in general
22 surgery, I think there is concern about what

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1 practitioners do, and there is concern about both
2 physician training and how much the public who is
3 interacting with these physicians knows about such
4 issues, but I would add myself that I don't know that
5 there's anything that we can impose upon this or any
6 other sponsor which is going to be a requirement vis-
7 a-vis that particular aspect of the training.

8 Does that answer the question?

9 DR. WITTEN: Well, I do have one follow-on
10 question, and just to see if anyone has anything to
11 add, which is have we learned anything from the study
12 and the information the sponsors provided that leads
13 us or leads you all to recommending anything specific
14 in the label regarding surgical practices and post
15 operative management with this particular product
16 based on the information that was provided from the
17 studies.

18 CHAIRMAN WHALEN: Dr. Burkhardt?

19 DR. BURKHARDT: The information provided
20 in the studies shows that you can't push one of these
21 things through a small hole without maybe injuring it,
22 and I would think that it would be reasonable to

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1 suggest to the FDA that they advise against insertion
2 through a long, small tube by way of the umbilicus.

3 DR. WITTEN: Thank you.

4 DR. CHANG: And I think that this issue of
5 Betadine perhaps changing the integrity of the device,
6 and particularly the length of incision, may be added
7 in the labeling.

8 DR. BURKHARDT: Could I speak to that
9 issue?

10 CHAIRMAN WHALEN: Dr. Burkhardt.

11 DR. BURKHARDT: The two major problems we
12 have are deflation and capsular contraction. There is
13 new evidence that is presented here that the Betadine
14 may make deflation more common. There is evidence in
15 the literature that it may make capsular contraction
16 less common.

17 And I would suggest to you that this
18 should not be an issue of device approval, but should
19 be left up to the judgment of the operating surgeon.

20 CHAIRMAN WHALEN: I guess the only
21 response I would have to that is ultimately it's going
22 to be anyway, isn't it? Ultimately it is going to be

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1 up to the surgeon, and the surgeon is going to do
2 whatever he darn well pleases no matter who tells him
3 anything.

4 Some of you probably think since we
5 answered all seven questions that we're now going to
6 vote. You're wrong.

7 (Laughter.)

8 CHAIRMAN WHALEN: We will now proceed with
9 the second open public hearing session of this
10 meeting. All those and only those who have signed up
11 for this -- there are four people -- who will address
12 the panel should speak clearly into the microphone as
13 the transcriptionist is dependent upon this means of
14 providing an accurate record of this meeting.

15 The instructions from this morning still
16 apply, and to briefly encapsulate those, we would ask
17 that you disclose if anyone is paying for your trip or
18 accommodations; if you have any financial ties to
19 industry or health professional societies. We would
20 also ask that you disclose whether you are a witness
21 or party to any lawsuits related to breast implants or
22 whether you derive any of your income from medical

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1 procedures involving breast implants or symptoms
2 attributed to breast implants.

3 Each speaker in this session, unless
4 there's a loud outcry, was originally going to be
5 allotted ten minutes, and in view of the hour, the
6 chair is going to ask that you confine that to five
7 minutes, and we only have time for the four scheduled
8 speakers.

9 The first one is Lale Goddard.

10 MS. GODDARD: (Inaudible.)

11 CHAIRMAN WHALEN: If you feel that it's so
12 critically important, then please proceed.

13 I'm sorry. Just for the timer's sake
14 then, ten minutes on this please.

15 MS. GODDARD: My name is Lale Goddard.

16 Now can you hear me better? I don't need
17 to holler, right?

18 Okay. My name is Lale Goddard. Thank you
19 very much for the opportunity to appear before you
20 today.

21 I paid my own travel and accommodations.
22 I do not have financial ties with industry or health

1 professional societies. I am the plaintiff to a
2 pending lawsuit related to breast implants. I derive
3 no income from surgical procedures.

4 I'm here today because scientific
5 literature states that particulate wear debris
6 generated from implanted medical devices may not be
7 biocompatible. Long term implantation of various
8 medical devices, such as breast implants and joint
9 implants, can generate particulate wear debris.

10 White blood cells, called macrophages, can
11 be stimulated or activated when they ingest silicone
12 elastomer particles. Activated macrophages can
13 synthesize and release various inflammatory mediators,
14 such as the pro inflammatory cytokines called tumor
15 necrosis factor alpha.

16 Tumor necrosis factor alpha induces the
17 production of another inflammatory cytokine called
18 interleukin-1. Tumor necrosis factor alpha and
19 interleukin-1 are both potent and biologically active
20 protein molecules. They act as signals between cells
21 to regulate the immune response to injury or
22 infection.

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1 Biological properties of interleukin-1
2 suggest that its effects often mimic host response to
3 infection, inflammation, injury or immunological
4 challenge.

5 Once released into the circulation,
6 interleukin-1 can induce systemic systems, such as
7 fever, muscle aches, arthralgia, headache, lassitude,
8 sleepiness, changes in metabolism, and hematological
9 dysfunction.

10 Tumor necrosis factor alpha and
11 interleukin-1 can be toxic in vivo. Inflammatory
12 cytokines produce at the site of chronic granulomatous
13 for a body reaction can move through the blood stream
14 and activate cells at a distant site. There is
15 growing evidence that the tumor necrosis factor alpha
16 is involved in the onset of inflammatory arthritis,
17 whereas the cartilage and bone destructive process is
18 mainly interleukin-1 driven.

19 Interleukin-1 is responsible in the
20 production of cyclooxygenase, an enzyme that helps
21 make prostaglandins, the substance largely responsible
22 for the pain and inflammation of arthritis. When

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1 scientists injected the inflammatory cytokines into
2 rabbits, the animals developed signs of inflammatory
3 arthritis and joint erosion.

4 Tumor necrosis factor alpha and beta are
5 potent stimulators of bone resorption in vivo.

6 Orthopedic implant manufacturers and
7 surgeons have known about the adverse cellular
8 responses to particulate wear debris for decades, and
9 they call it a chronic granulomatous foreign body
10 reaction or particle disease.

11 Scientific literature states that silicone
12 elastomer particles can cause erosive or destructive
13 arthritis that mimic rheumatoid arthritis. Long term
14 benefits of silicone elastomer use in joint implants
15 probably far outweigh the risks of complications and
16 adverse reactions for most orthopedic patients.

17 The cosmetic and psychological benefits of
18 long term breast implants made with silicone elastomer
19 shell in healthy women may not outweigh the possible
20 risks and complications. The FDA recognized standards
21 for biological evaluations of medical devices and
22 guidance documents do not require the manufacturers to

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1 do testing for cellular responses to silicone
2 elastomer particles.

3 The particle testing could be done in less
4 than three weeks, according to an article published in
5 the May 1996 issue of Orthopedic Hand Surgery. The
6 title of the article is "In Vivo Inflammatory Response
7 to Silicone Elastomer Particulate Debris," published
8 by Dr. Sanjiu H. Naidu and his colleagues.

9 The article abstract states the following:
10 "Silastic silicone elastomer polymers,
11 polymethylmethacrylate particles, monosodium urate
12 particles smaller than 10 microns were injected into
13 a rat subcutaneous air pouch lined with synovial
14 membranelike cells. Inflammatory exudate from the air
15 pouch was retrieved at 6 hour, 24 hours, 48 hours, and
16 72 hours after injection. White blood cell count,
17 tumor necrosis factor, and prostaglandin E₂ were
18 measured in the exudate. White blood cell and tumor
19 necrosis factor levels in the exudate were the highest
20 for the silicone group in 24 hours. Prostaglandin E₂
21 was significantly higher in the silicone group at 24
22 hours. We concluded that acute inflammation is

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1 particle-type specific and that silicone elastomer
2 particles are acutely inflammatory."

3 In 1998, American Society for Testing and
4 Materials developed two particle testing standards.
5 One is titled "Testing for Biological Responses to
6 Particles in Vitro," and the other is titled "Standard
7 Practice for Testing the Biological Responses to
8 Particles in Vivo."

9 Both standards state the following: "it
10 is well recognized that the biological responses to
11 particles could be different from those to solid
12 materials. The interaction of the particles with
13 cells in the tissue, notably macrophages and other
14 phagocytic cells, is the key to final biological
15 responses."

16 The standards describe techniques used to
17 detect soluble cell products, such as tumor necrosis
18 factor alpha, interleukin-1, interleukin-1 receptor
19 antagonist, and interleukin-6 due to interaction of
20 phagocytic cells, such as tissue macrophages and
21 synovial lining cells with particles.

22 For consumer safety sake, please consider

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1 making the following recommendations to the FDA.

2 One, the FDA to recognize the American
3 Society for Testing and Materials standards titled
4 "Testing for Biological Response to Particles in
5 Vitro" and the "Standard Practice for Testing the
6 Biological Responses to Particles in Vivo."

7 Two, the FDA to updated and include the
8 two particle testing standards in the guidance
9 document.

10 Three, the FDA to not approve silicone
11 inflatable breast implant manufacturers' pre-market
12 approval application or product development protocol
13 until the manufacturers comply with the revised
14 guidance document.

15 Four, the FDA to analyze the explanted
16 elastomer shells to determine the amount of material
17 lost.

18 Five, if the FDA approves breast implant
19 manufacturers' PMAs and PDPs without the testing for
20 cellular responses to silicone elastomer particles,
21 then the FDA should inform the public that the
22 particle testing was not required for the PMA and PDP

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1 approvals.

2 Please do not vote for the approval of
3 breast implant manufacturers' PMAs and PDPs without
4 the requirement for testing for cellular responses to
5 silicone elastomer particles. Particles to be tested
6 should be smaller than 13 microns or small enough to
7 be ingested by macrophages or other phagocytic cells.

8 Manufacturers should inform doctors and
9 patients about the cellular responses to silicone
10 elastomer shell particles and cytokine production.

11 Thank you very much, and my written
12 statement is also available at my Web page,
13 jps.net/joseeefus/.

14 Have a good evening.

15 CHAIRMAN WHALEN: Thank you.

16 Next we will hear from Ms. Rosmary Locke
17 on behalf of the Department of Defense Military
18 Hospital Beneficiaries.

19 MS. LOCKE: Thank you.

20 It's been a long day, but I really do
21 appreciate the opportunity to speak to you after one
22 of the manufacturers presented and the FDA made the

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1 comments.

2 My name is Rosmary Locke, and I have no
3 personal financial involvement with manufacturers or
4 health care providers. I'm not involved in a legal
5 issue, and I'm not being reimbursed.

6 However, I am a volunteer for Y-ME
7 national breast cancer organization, and it's my
8 understanding in the past they did receive small
9 donations from one manufacturer. The bulk of our --
10 that's all public record in our annual reports -- the
11 bulk of our money comes from individual donors and
12 some pharmaceuticals who support our work.

13 I am a breast cancer survivor of 15 years
14 with implants. I'm a military spouse and a health
15 care advocate for military beneficiaries. I'm also a
16 past president of the National Military Family
17 Association.

18 Eight years ago I was a member of your
19 advisory panel when it reviewed the PMA on gel
20 implants. Though I believed that gel implants were
21 safe, I concurred with the other panelists that the
22 scientific information was lacking for gel approval.

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1 Since then a large body of science has
2 emerged showing that breast implants do not cause
3 systemic disease. The National Academy of Science's
4 IOM review of the science, its conclusions and
5 recommendations now provide us with knowledge based on
6 sound science.

7 Saline implants are a very important
8 option for women who face breast cancer. At
9 diagnosis, treatment options must be considered and
10 difficult decisions made with the hope that disease
11 can be controlled and a more normal life resumed.

12 That is why it's so important to have a
13 full array of treatment options. It gives the cancer
14 patient some sense of control and restoring her health
15 and quality of life.

16 While saline breast implants generally do
17 not produce the desired aesthetic results of gel in
18 reconstruction, saline offers mastectomy patients the
19 only unrestricted option left since the FDA's
20 restrictions in 1992.

21 Saline is the only implant option for
22 breast cancer patients or long term survivors treated

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1 in military hospitals, and access to gel for
2 reconstruction is a problem for many women in the
3 civilian sector.

4 And I know because time is limited you're
5 probably not going to ask any questions on why that
6 is, but it is a significant problem for military
7 beneficiaries.

8 I urge this panel to stick to the science,
9 consider the exhaustive and definitive review of the
10 IOM of all of the existing research. The IOM found
11 that there's no evidence that silicone breast implants
12 cause disease or cancer. Yet the FDA restrictions on
13 gel remain, denying access or causing delays for some
14 women seeking them for reconstruction.

15 Look at the fear and the litigation that
16 happened after the 1992 PMA on gel. FDA cannot and
17 should not act in a vacuum.

18 Now, there have been many other reviews
19 that were spoken of today, and each found similar
20 findings to that of the IOM. The research shows no
21 increase in primary or recurrent breast cancer.
22 Indeed, though we've heard from a number of women who

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1 have a wide range of medical conditions they attribute
2 to breast implants. Their health needs cannot be
3 ignored.

4 The FDA, however, cannot make regulatory
5 decisions based on personal anecdotes. It must stick
6 to the science.

7 Of course, a woman considering
8 reconstruction should seek in depth information about
9 her cancer and her reconstruction. Now, the National
10 Cancer Institute, FDA, IOM, and many medical
11 institutions have excellent information in print and
12 Web pages, and many women find it helpful to talk to
13 other cancer patients.

14 Consumers need to know that no medical
15 device is risk free. No medical device lasts forever.
16 And there are risks associated with all surgical
17 procedures. That makes informed consent central to
18 the process. It's absolutely essential for doctors to
19 advise their patients on the risks and benefits of any
20 medical procedure.

21 Though quite sobering, we welcome the
22 information coming from the manufacturers on the

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1 nature and frequency of complications and
2 reoperations.

3 We also appreciate the opportunity by the
4 FDA to make comments on informed consent and labeling,
5 and we ask to be able to make a statement on that.

6 In summary, I ask that breast cancer
7 treatment decisions should be made on how best to
8 treat cancer, not on disfiguring surgery, and breast
9 implants offer an important option to women with
10 breast cancer.

11 I urge this panel to base its
12 recommendations on sound science and studies with
13 reasonable endpoints, a process FDA uses in evaluating
14 all other effective medical devices and therapies.

15 Thank you.

16 I did cut my time. It may not seem like
17 it with the red light going.

18 CHAIRMAN WHALEN: Thank you.

19 We next will hear from Dr. Diana Zuckerman
20 from the National Center for Policy Research for Women
21 and Families.

22 DR. ZUCKERMAN: Is this a good height?

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1 Oh, towards me? Is that better?

2 I'll be brief if you stay awake. That's
3 the deal.

4 (Laughter.)

5 CHAIRMAN WHALEN: Hunger is a wonderful
6 motivator. Please continue.

7 DR. ZUCKERMAN: Thank you.

8 I just want to briefly say that I come to
9 be here -- oh, I should start with my conflicts of
10 interest. I'm donating my time, and my transportation
11 here all the way from Bethesda, and my answers to the
12 other conflict of interest questions are no.

13 My background is in epidemiology and
14 psychology, and I've also talked to hundreds of women
15 with breast implants of the last ten years, and so my
16 goal today is to put those two things together.

17 I know that we as scientists are not
18 supposed to focus on anecdotes, but sometimes when we
19 listen to patients, it tells us something important,
20 and when we tie that in with what the research does or
21 doesn't tell us, I think it can be very important and
22 give us some insights into where we go next.

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1 I'm very concerned about the loss of
2 patients to follow-up in the studies that you've heard
3 about, and I'm particularly concerned about it because
4 I've talked to a lot of implant patients who have told
5 us, told me personally of experiences where they try
6 to tell their doctor that they have problems.

7 And it isn't getting registered in the
8 studies that they are supposed to be in, or they get
9 so turned off by doctors who do not seem to believe
10 that their health problems can possibly be related to
11 their implants that they stop seeing those doctors and
12 go find other doctors.

13 And so I think it is not a minor issue
14 that there is this loss of patients to follow-up, and
15 several of you have raised that question, and then I
16 feel it's sort of gotten lost. It's the long day and
17 it's the end of the day, and so I want to bring you
18 back to that issue, that perhaps part of the reason
19 why the women who had problems sound one way and the
20 research seems so entirely different is because some
21 of those women at least are getting lost.

22 And of course, we don't know how many

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1 there are, and that's very important, and I think
2 that's a big issue, certainly for me, and I hope it
3 will be for you.

4 I also want to talk a little bit about the
5 quality of the data, and that ties in again. I mean
6 obviously a study of depression that has no comparison
7 sample or control group, I mean it reduces the
8 credibility of the whole package to me to have
9 something like that be supposed to be evidence that
10 these women are getting better because, of course,
11 women who have just had surgery for breast cancer are
12 going to be depressed.

13 I used to do research on depression. I
14 promise you that's true. They are going to feel
15 better, and without a comparison sample, you don't
16 know anything about how effective this particular
17 treatment is for those women.

18 I also have some concerns about whether
19 all of the right questions were asked in these
20 studies. Pain is a big issue for a long of the women
21 I talk to. I'm not at all convinced that the research
22 that was presented today really deals with pain in a

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1 meaningful way.

2 Obviously if women say they're really
3 satisfied with their implants, you have to assume that
4 pain is not a big problem, but let's remember that the
5 follow-up was quite short for these studies. Three
6 years is not a very long time.

7 When I've talked to women, most of these
8 women have been very happy with their implants for the
9 first few years. It's only after three or four or
10 five or six or more likely seven or eight years that
11 they start having serious problems.

12 And let me also mention that part of that
13 is that when they do have problems initially their
14 doctors say, "Don't worry. It's going to get better,"
15 and so they have this hope, and they may feel quite
16 satisfied because they think that the problems that
17 they have of pain or numbness in the nipple area or
18 whatever it might be, that those problems are going to
19 go away and they're going to feel better soon.

20 If you follow them for a longer period of
21 time, they might feel quite differently about how
22 satisfied they are and how they feel about it.

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1 Let me briefly say I'm on the Scientific
2 Advisory Committee for the NCI study of breast
3 implants. I was very surprised that that study wasn't
4 mentioned here today. I know that the data are not --
5 nobody knows better than me the data are not public
6 yet.

7 I would have thought FDA would have asked
8 for those data. I would have thought they would have
9 presented those data to you. Although it's not
10 published yet, some of those data are already
11 analyzed, and one of the people at FDA is a co-author
12 of those studies.

13 Those are studies of cancer, breast cancer
14 and other cancers, and a study of connective tissue
15 disease. Those are relevant data. Those are
16 important data. It's a very large study, the largest
17 study that's ever been done, and I don't understand
18 why you didn't get it, and I hope that FDA will ask
19 for it and look at those data before any kind of final
20 decision is made.

21 I'm almost done here.

22 There's one thing I just have to address,

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1 and that's the issue of connective tissue disease.
2 When I was asked to speak today and all the other
3 public comment people were told stick with saline
4 implants, and I'm happy to do that, but the studies on
5 connective tissue disease do not do that.

6 I may be one of the few people in America
7 who's actually read all of these epidemiological
8 studies on connective tissue disease and breast
9 implants. Here they are. I've read all of the. I've
10 done a review of them.

11 And let me tell you that of the 17 studies
12 that are most often quoted in the Institute of
13 Medicine report, as well as other reports that have
14 been done, only one, one study looked at saline breast
15 implanted women and analyzed them separately. None of
16 the other studies did.

17 Most of the studies had no women with
18 saline implants or very small numbers that were not
19 analyzed separately. If you want to assume that the
20 data on silicone gel implants are relevant to saline,
21 that's a decision to make, but it's kind of an unusual
22 decision to make. Usually you would study, you know,

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1 one product at a time and base your decision on that
2 one product.

3 Finally, I just want to say that there is
4 a lack of long term data. I think that's serious, and
5 I commend your concern about that and your asking for
6 more data.

7 As someone who's done survey research, I
8 don't think there's any way in the world you're going
9 to get questionnaire data ten years out. You may say
10 it's impossible to get, you know, actively women
11 coming back in, but you're sure never going to get
12 questionnaire data like that.

13 If you think that long term data are
14 important -- I personally think they're very important
15 -- I don't know how you're going to create an
16 incentive for the manufacturer to do that if you
17 approve these devices. If they haven't done it up
18 till now when they had all these years to do their
19 studies, what's going to give them the incentive to do
20 it in the future?

21 And my understanding is that FDA does not
22 have post market surveillance resources or perhaps

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1 authority for medical devices. So if you think that
2 the data that's been presented are not sufficient to
3 prove safety, and I know that some of you have said
4 that here today, then you have to think very carefully
5 about how you're going to make sure that happens when
6 I think there is actually no other way to make sure it
7 happens.

8 And my last comment is just to say that
9 breast cancer patients are a special case, and Dr. --
10 not doctor -- Ms. Dubler and I commend your concern
11 about them, and I share it.

12 I've worked with a lot of breast cancer
13 activists, and I actually met with them very recently
14 to talk about this issue, and there's a wide range of
15 feelings among the breast cancer community about
16 breast implants. Most groups have been neutral on the
17 issue. They all do want good data.

18 We do women no favor, whether they're
19 breast cancer patients or any other patients, we do
20 them no favor by leaving something on the market that
21 is not proven safe for them.

22 Thank you.

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1 CHAIRMAN WHALEN: Thank you.

2 Finally we have -- Dr. Zuckerman, if you'd
3 stay at the podium, there's a question.

4 DR. ZUCKERMAN: Sure.

5 DR. BLUMENSTEIN: This NCI study, I did
6 not know about it, and I think that it has a possible
7 impact on what other kinds of data we require of the
8 manufacturers, and I would like to know some more
9 details about it.

10 CHAIRMAN WHALEN: Well, before you go into
11 any details about that, Dr. Witten, would you like to
12 comment upon the whole process we're about in terms of
13 what PMAs are and what we can review?

14 DR. WITTEN: Yeah. I just want to
15 reiterate what I had mentioned this morning, which is
16 we want you to base your safety and effectiveness
17 assessments on the information contained in the PMAs,
18 and in addition, your scientific knowledge, including,
19 you know, what you know from publicly available
20 scientific literature.

21 CHAIRMAN WHALEN: Which is what we are
22 mandatorily directed to do.

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1 DR. WITTEN: Which is what we're directed
2 to do.

3 DR. ZUCKERMAN: No, and I understand that,
4 but I have heard people say, "We don't have to worry
5 about cancer or connective tissue disease because the
6 studies show there are no problems," and I am not at
7 liberty to say what's in those studies even though I
8 have seen them. I am not allowed to talk about them.

9 I'm only saying I think that that would be
10 something that FDA would want you all to look at and
11 would want to look at.

12 CHAIRMAN WHALEN: Thank you.

13 Finally, we have Ms. Jill McClure from the
14 National Alliance of Breast Cancer Organizations.

15 MS. MCCLURE: Good evening. Thank you for
16 your time.

17 My name is Jill McClure. I'm a health
18 educator and a breast cancer information specialist.
19 It's my pleasure to represent the consumer and
20 professional constituencies of the National Alliance
21 of Breast Cancer Organizations and to offer a point of
22 view to the members of the panel.

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1 My travel expenses have been paid for by
2 internal NABCO funds earmarked for advocacy
3 activities. Neither NABCO nor I have any financial
4 ties to implant manufacturers or marketers. NABCO
5 does not receive any funding from any current implant
6 manufacturers. Neither NABCO nor I are part to any
7 implant related lawsuits.

8 The reason I phrased it current implant
9 manufacturers, I know, for example, Bristol was an
10 implant manufacturer, and they're somebody who has
11 supported a publication of ours this year. So I want
12 to be absolutely clear on that.

13 I would like to emphasize that my remarks
14 will be confined to use of these devices for
15 reconstruction for women who have had breast cancer or
16 breast disease or who have had a prophylactic
17 mastectomy due to an established risk for breast
18 cancer.

19 NABCO cannot and does not comment on the
20 cosmetic use of breast implants of any type.

21 NABCO is a not for profit, information and
22 education resource on breast cancer. It is also a

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1 network of over 400 member organizations and a
2 nationally recognized voice for the needs and concerns
3 of women with breast cancer, women at increased risk
4 for the disease, and their friends and family.

5 NABCO's professional staff members are
6 frequently called upon by providers and health
7 professionals to serve as patient advocates and
8 advisors in medical and policy deliberations and in
9 clinical decision making.

10 We also frequently translate scientific
11 developments and advances into understandable and
12 compelling language for print and broadcast media.

13 We're comfortable taking on these roles
14 and responsibilities because NABCO's mission and
15 program areas offer us constant exposure to a large
16 and varied constituency.

17 I work in NABCO's Information Services
18 Department where our Web site and toll free number are
19 NABCO's front line for serving the public and where we
20 handle hundreds of weekly contacts with many segments
21 of patient and survivor communities.

22 Callers express their breast cancer and

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1 educational needs, and as we fulfill those needs with
2 materials, resources, and referrals, we've often heard
3 misinformation, confusion, and concern, but also some
4 reassurance and relief surrounding the emotionally
5 volatile subject of breast implants.

6 Without question, saline implants are not
7 ideal since they can leak, be subject to capsular
8 contracture, and are less sturdy, require higher
9 maintenance, and are often less aesthetically
10 acceptable than their silicone filled counterparts.

11 We at NABCO hope and expect that the FDA
12 will address the availability of silicone filled
13 breast implants, again, for breast cancer patients and
14 survivors at some point later this year, but until
15 these devices are open for discussion, we wish to make
16 several points about saline breast filled implants.

17 Safe, well tested, saline filled breast
18 implants must continue to be available in as many
19 types and forms as feasible so that options and
20 choices for women with breast cancer are maximized.
21 The alternatives of autologous tissue reconstruction
22 and external prosthesis are not appropriate for every

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1 woman, and as individuals differ and vary, so much
2 their options.

3 Like any medical device or procedure,
4 saline breast implants should be considered and
5 selected by a woman and her medical team after careful
6 discussion and consideration with a full information
7 exchange that includes the risks and benefits.

8 Saline filled implants have been available
9 and, as such, have not been subject to the more
10 stringent and highly regulated informed consent
11 provisions and requirements of clinical trials.

12 However, there still remains confusion
13 about implants, and for this reason NABCO calls upon
14 the device manufacturers and the medical specialists
15 and providers who use these implants to make special
16 additional efforts.

17 Women who are considering saline implants
18 should receive an exceptionally thorough,
19 comprehensive, and understandable information review
20 about the devices from their physicians, be given time
21 to ask questions and have those questions answered.

22 Information conveyed should not only

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1 include what to expect when the saline implants are
2 first received, but how the devices will behave over
3 time both under normal circumstances and under unusual
4 circumstances.

5 NABCO encourages giving women contact
6 information for organizations that can offer accurate
7 and balanced information about implants and breast
8 health in general. Understanding and working with her
9 implant is a woman's lifelong commitment and part of
10 the decision to choose an implant.

11 It should be made clear that replacement
12 of a saline implant is not only possible, but likely,
13 and the woman shares the responsibility with her
14 physician for keeping up with developments about
15 implant improvements, advances, safety, and this idea
16 of maintenance.

17 Women with saline implants need to know
18 the special considerations and requirements for breast
19 examinations for early detection of breast cancer.
20 MQSA regulations have specified certain procedures for
21 imaging women with implants, and these must be taken
22 into account at the time a woman has an implant in

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1 place or -- I'm sorry -- and the type of implant the
2 woman has in place.

3 Breast self-examination techniques should
4 be reviewed with the woman after the implant has
5 resolved to its ultimate size and resting place. The
6 breast cancer survivor should be particularly vigilant
7 about breast examinations and the possibility of
8 recurrence.

9 Finally, NABCO urges the FDA to move
10 forward with communication of scientific findings
11 about breast implants, and that all types of these
12 devices be discussed using factual scientific and
13 evidence based information rather than relying on or
14 giving consideration to emotional, personal, and
15 anecdotal experiences.

16 Women who have survived breast cancer are
17 particularly able to weigh the risks and benefits,
18 understand that no medical intervention is risk free.
19 Having become informed patients by selecting the
20 treatments that would extend their lives, patients and
21 survivors need and deserve similar choices even if
22 they seem difficult or challenging, including breast

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1 implants and any other regulated aspect of recovery
2 that may improve the quality of their lives.

3 As their advocates, we have confidence
4 that these women will make wise choices that are right
5 for each one of them based on full disclosure.

6 Thank you for your time.

7 CHAIRMAN WHALEN: Thank you.

8 I'd like to thank all of those for taking
9 time out of their schedules to testify at this panel
10 meeting.

11 Is there any further comment from anyone
12 in the FDA?

13 DR. WITTEN: No, thank you.

14 CHAIRMAN WHALEN: Thank you, Dr. Witten.

15 Will there be any further comment from
16 Mentor Corporation?

17 Seeing that there will be, I'd like to
18 remind you beforehand that this will be for ten
19 minutes. I would ask that the timer be run to that
20 accord, and also remind you that this is not to
21 present new data, but just to comment upon anything
22 that has already taken place.

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1 MR. PURKAIT: Thank you, Mr. Chairman.

2 Thank you, members of the panel, for your
3 time and the thoughtfulness and seriousness that you
4 have shown to consider our PMA today.

5 There are some issues that I saw or we saw
6 here you panel members are struggling about the data,
7 specifically on the complication rates. I'll take
8 only a few seconds or minutes jut to show that some of
9 this data that we presented did not show the
10 complication rates increasing over time.

11 I'd like to call these slides here,
12 please.

13 This is from the augmentation patients.
14 I wouldn't take much time to explain each of those
15 data. I just want to draw your attention to the fact
16 that the year one, year two, year three, you can see
17 the year one they are higher, as it goes down in year
18 two and year three. All categories go down except the
19 reoperation, what we have explained before.

20 Slide number two please.

21 Similarly on the hematoma, seroma,
22 necrosis breast pin, and the others, what we have

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1 calculated through the Kaplan-Meier, which we have
2 submitted also, that shows that the year one, year
3 two, year three decreasing, not increasing.

4 Similarly, on the reconstruction patient,
5 please. On the reconstruction patients, I'd like to
6 also point out that infection goes high at the year
7 first and goes decreasing rate over two and three.
8 Similarly on the deflation, deflation probably is in
9 the higher scale, which we have explained the reason
10 behind it. Reoperation rate and explantation goes
11 high in case of the reconstruction.

12 Similarly, in the other areas of
13 complication, the hematoma, necrosis, seroma, all of
14 them shows higher rate at the year one, year two, and
15 year threes on the decreasing.

16 This one, the extrusions and the rest of
17 the other complications, this is an example to show
18 that what you're struggling before about the safety
19 issues related to the fact that this goes over --
20 increase over time. I like to present this to keep
21 the record straight that this doesn't really.

22 The second thing that I'd like to mention

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1 is that in case of the division patients I request
2 strongly to the panel members to consider this
3 carefully because the division patient groups are in
4 between, and I do not like to see that division
5 patient groups have a cloud over their head that they
6 can get an implant one time, but the next time they
7 can't because there is some problem with the devices.

8 Also I'd like to mention that our SPS
9 study is quite full of data, we believe rich, and has
10 a lot of new information that we recently uncovered
11 and discovered, and we are understanding, and we
12 believe that as those data are being disseminated and
13 been shared with both physician and FDA, it will be
14 provided in the patient as well as the physician-
15 patient information in such a way that we'll be able
16 to provide a better information than before,
17 previously, to the whole community.

18 With those notes, again, I thank you very
19 much for your consideration, and I believe that this
20 will give you a pretty good idea about our PMA's data
21 and will help you to understand this data and vote on
22 it.

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1 Thanks.

2 CHAIRMAN WHALEN: Thank you.

3 Dr. Krause will now read the voting
4 instructions for the panel.

5 DR. KRAUSE: Thank you, Dr. Whalen.

6 I'd now like to read the voting
7 instructions for the panel.

8 The medical device amendments to the
9 Federal Food, Drug, and Cosmetic Act as amended by the
10 Safe Medical Devices Act of 1990 allows the Food and
11 Drug Administration to obtain a recommendation from an
12 expert advisory panel on designated medical device
13 pre-market approval applications that are filed with
14 the agency.

15 The PMA must stand on its own merits, and
16 your recommendation must be supported by safety and
17 effectiveness data in the application or by applicable
18 publicly available information.

19 Safety is defined in the act as reasonable
20 assurance based on valid scientific evidence that the
21 probable benefits to health under conditions on
22 intended use outweigh any probable risks.

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1 Effectiveness is defined as reasonable
2 assurance that in a significant portion of the
3 population the use of the device for its intended uses
4 and conditions of use, when labeled, will provide
5 clinically significant results.

6 Your recommendation options for the vote
7 are as follows.

8 First option: approval if there are no
9 conditions attached.

10 Second option: approvable with
11 conditions. The panel may recommend that the PMA be
12 found approvable subject to specified conditions, such
13 as physician or patient education, labeling changes or
14 a future analysis of existing data. Prior to voting
15 all of the conditions should be discussed by the
16 panel.

17 Third option: not approvable. The panel
18 may recommend that the PMA is not approvable if the
19 data do not provide a reasonable assurance that the
20 device is safe or if a reasonable assurance has not
21 been given that the device is effective under the
22 conditions of use prescribed, recommended, or

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1 suggested in the proposed labeling.

2 Following the voting, the chair will ask
3 each panel member to present a brief statement
4 outlining the reasons for their vote.

5 CHAIRMAN WHALEN: Thank you, Dr. Krause.

6 Does one of the panel members wish to make
7 a motion?

8 DR. BURKHARDT: Yes, Mr. Chairman. I move
9 that the panel recommends approvable with conditions
10 for this PMA, and that those conditions should include
11 post approval studies specifically consisting of some
12 of the mechanical in vitro engineering concerns that
13 have been expressed by Dr. Li.

14 In addition, I would attach labeling
15 revision concerns, specifically including a revision
16 of the comments regarding the shaped implant and
17 labeling to discourage periumbilical insertion.

18 CHAIRMAN WHALEN: As to the motion that
19 there be a recommendation that this be approvable with
20 conditions -- and we will discuss those conditions
21 shortly -- but as to that motion, is there a second to
22 the motion?

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1 DR. LI: Second.

2 CHAIRMAN WHALEN: We will now consider
3 each of the conditions which have been stipulated by
4 the motion, and if you could once again please read
5 for us, Dr. Burkhardt, or refresh for us what the
6 first stipulation would be.

7 DR. BURKHARDT: The first stipulation was
8 that additional mechanical testing be performed in
9 cooperation with the FDA to address some of the
10 concerns that have been raised.

11 CHAIRMAN WHALEN: Thank you.

12 Is there any discussion of that
13 stipulation? Dr. Li.

14 DR. LI: Do you want specific suggestions?
15 Is that where we are?

16 CHAIRMAN WHALEN: Well, just in support of
17 that being a condition or not.

18 DR. LI: Yes.

19 CHAIRMAN WHALEN: Or amplifying or --

20 DR. LI: I'm obviously fully in support of
21 that. Is that all you want now or do you want the
22 actual conditions for approval?

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1 CHAIRMAN WHALEN: I'm not trying to be a
2 ventriloquist. You can either talk about it as much
3 as you wish or just say you approve it and leave it
4 there.

5 DR. LI: Oh. Well, I would approve it
6 with -- surprisingly, I would actually approve it with
7 conditions perhaps. I think minimally you need to
8 complete the testing of all the models that you intend
9 to sell, and I think it's important that you test them
10 with the materials that you intend to sell in the
11 sterilization conditions in which you sterilize them
12 at.

13 So if you're going to consider gamma
14 sterilization as a potential fall-back manufacturing
15 process, I think it is imperative that you test it in
16 those conditions.

17 Further, we didn't mention it before, but
18 gamma sterilization raises the whole issue of shelf
19 aging and things like that, which are probably much
20 less important for dry heat.

21 I think there needs to be either a
22 modification or perhaps even just a further

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